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PATENT APPLICANT

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FIELD OF INVENTION

BACKGROUND OF INVENTION

STATEMENT REGARDING

Generation of entities to create economic value as in corporations, represent the aggregation of complementary skills and visions that create products that are expected to have a value to a set of markets that is greater than the cost of the utilization of all of the constituent participants and the resources brought to bear on the products. In the past these entities were largely created by manual seaches for

suitable conadidates in each functional area dn industry area required for the product by entrepreneurs

who used largely informal networks for this process.

A.I.Rajasingham. 6024 Bradley Boulevard, Bethesda, MD 20817

TITLE OF INVENTION: Professional Collaboration Networks

CROSS REFÉRENCE TO RELATED APPLICATIONS: US 60/450,682

REFERENCE TO A MICRO FICHE APPENDIX: Not Applicable

FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT: Not Applicable

The present invention creates a new paradigm for the creation of economic value generating entities by using Trust networks and Professional Networks. In many embodiments of the invention, these Trust and

Professional networks are created by aspects of the invention.

SUMMARY

OBJECTS & ADVANTAGES

The objects and advantages of the present invention relate to the creation of entities that can generate economic value by utilizing the structure and content of communications among members of networks that are created both for social and professional interaction. Such economic value in the present invention may for example relate to the creation of business entities or a

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profiles

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new approach for matching job seekers to job offerings with information in normal interactions between members on one or more networks. The invention defines a new approach to creating the environment for such communications and also provides a process that uses existing networks as inputs for the process.

BRIEF DESCRIPTION OF DRAWINGS

Figures 1-35 provide slides that represent the process for building an exaple of the present invention.

Fig 3, illustrates possible layers in networks.

Fig 4, illustrates the formation of a Trut layer based on personal communications. Forums are usually social networks.

Fig 5, shows an example of a screen where the personal postings can be made in a Trust network of choice. If Trust Network is outside the PCN a fee can be charged by outside network for information on postings.

Fig 6 shows a Professional layer where reputations are generated with postings.

Fig 7 shows routine professional postings that can indicate specialty or field and sub field. Fees can be due for postings that solve problems posted by originators. Postings general a reputation.

Fig 8 Shows a visualization of a posting that has components in multiple fields that make it easy for members to choose to respond to the field profiles that they have competence in.

Fig9 Shows first level responses to the postings n Fig 8. They could each have different components in different fields.

Fig 10. A second respondent could have still different components of his/her response, therefore beginning to create a trajectory of field strengths along thread.

Fig 11, is a representation of multiple threads that can evolve from a first post each with different field strengths at each step. The Threads that end could have high information content of the poster.

Fig 12, shows that a single member canbe in many PCNs

Fig 14, shows an Enterpreneur/originator/contract writer defining contracts and bradcasting needs for legal structure for example

Fig 15, example fo what could be secified by the originator/contract writer.

Fig 17, the next step in creating a venture would be to get people that will have the right

Fig 18, example of professional requirements

Fig 19, Bids back to the entrepreneur/originator/contract writer.

Fig 20, Choice screen for bids

Fig 22, trust /diligence process begins

Fig 23, Trust layer for diligence. References (possibly for a fee) for multiple levels chaining back along several links to the Originator/Enterpreneur/Contract Writer creating a complete connection thread. And then chaining forward on complete connection threads.

Fig 24, Professional Evaluation. See Fig 8,9,10 for cross reference.

Fig 25, Professional Evaluation with externa; experts.



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Fig 26, Referee competence example of representation.

Fig 28, Action of the originator to resond to bids

Fig 30, PCN for using diligence information for raising capital

Fig 31, The PCN screens for a VC or investor.

Fig 34,35 Examples of implementation aspects.

DETAILED DESCRIPTION OF INVENTION

The present invention either uses a preexisting professional community or creates one or more such communities using the specialization and preferences of the members. These networks can result from professional organizations such as professional societies such as IEEE or Colleges and classmates in particular fields, Alumni of colleges, colleages in profitable organizations, university staff and faculty etc. This forms the professional layer of the communities. There is in addition a Trust layer of the community that is created by the interaction of members of one or more networks that relate to personal relationships from prior or current contact in organizations or physical locations such as colleges, universities, alumni groups, companies, professional organizations, schools etc. The Trust Layer (TL) and the Professional Layer (PL) are parts of the Professional Colaboration Network (PCN)

The classification of the members into functional areas relevant for economic activity and industry groupings relevant for creating economic value is done to help focus dialog in the professional networks. Similarly the Trust networks get focus by segmentation in to the relevant groups that are interested in a dialog. For example class groups in an alumni Egroup.

The professional networks may have a range of classification mechanisms for the threads of discussion and dialog that flows through the network. One example would be an item for posting in the professional network be classified by the originator to have a components in one or more industry field and at least one functional area that is relevant for the posting. As responses are generated to the initial posting, respondents are allowed to provide new combinations of the industry weightings for the response and the functional area if different to the original posting. This will allow a tree of responses to develop where any branch of the tree may have a particular industry orientation with more industry specialists targeting a response. The model can have fees for responses to the postings made by the PCN and partly paid to respondents. However, this may not be necessary as, another model can use th desire of the participants to create a reputation to drive their interest providing inputs. The originator may provide inputs on the relevance of the responses in resolving the issue originally posted.

These professional networks keep functioning to address specific queries of members and may have economics of their own in providing incentives for respondents. However, in addition they create a record of competence for each of the participants. This record can take many forms depending on the structure that is created for the interaction and the definition of the threads of



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discussion. Some examples are provided in the figures but they are by no means complete in terms of such structures. When a new venture or oher entity is contemplated by an entrepreneur or even a existing entity that has job vacancies, such professional networks can be queried to provide the competence record of the members.

In the past such "references" came from a forward seach among individuals known to the originator of the search. Then to take advantage of the economies of scale in the relationships in each field search firms were set up to use relationships that can bew reused for new relationships. Such search firms manifested themselves to som extent in Venture Capital Companies that used relationships in their data banks to create economic value over and above the capital hey provided. The present invention provides a more powerful paradigm as both forward and backward searches may be conducted in the networks and the infrastructure for transactions may even be designed to provide the right parameters for measuring the performanc of members when there is a search of a new business entity conducted by an anterpreneur or a job posting for a company.

In a similar vane there is a need for trust relationships or "personal references" for generating new relationships in a busieness venture or for that matterin hiring decisions. The structure of interactions in networks can ge harnessed to provide key information in terms of the relative strength of relationships such as derived from the frequency of iterraction between members or of interaction of members to groups that are responded to by other members. Such linkages can be connected to get of a set of relationships with the Entrepreneur or other searching party (E) and then a forward search from E conducted right through to the possibly several paths to the subjects of the search. There can also be information on the nature of the relationships in the networks that are made available.

There is an issue of intrusion into privacy of the members. However, there can be disclaimers designed for members on entry to allow such information to facilitate such processes that such members can be beneficiaries of. For example, they could be paid by the PCN for allowing their interractions to be used in a search.

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The above structure can be used as noted in a passive manner for a record of past actions of members of the PCN to provide inputs in a search. In addition there can be active interactions of members on request byt eh PCN for additional information or economic exchange. For example there can be referees at different levels as shown in the figures for both the TL and the PL that can be paid by the PCN or another agent through the PCN. In addition members who are knowledgabe about performance of members in a search may choose to provide performance guarantees to the searching party through the PCN thereby providing greater confidence to the E. Often such guarantees are more credible if underwritten by a credible financial institution. Such arrangements and the guarantee arrangements along with legally binding agreements in the relevant jurisdictions and locations of the members for all economic transactions may be generated and executed by the PCN.



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The process of creation of a new venture by an E may start with the PCN prviding a forum of Intellectual 1 Property legal firms that offer services to the PCN member (potentially for a fee to the PCN). The E can then 2 decide on one of these and then set up the IP requirements before creating a legal entity for operating the venture 3 (such as a corporation or LLC etc) Again this can be done through a set of legal entities that provide such set up services in different jurisdictions available on the PCN (potentially for a fee to the PCN). Once the business plan is created by E (again resources for this can be provided through sets of consultants who execute non disclosures 6 and operate through PCN for a fee as in the last two steps), there is a need to find members of a team for the venture. The PCN provides the channels for posting requirements, bidding for the process and providing the 8 diligence and then finalizing the arrangements (all for a fee which can include equity in the entity, wage based 9 compensation or other claims on the economic value created by the transaction) 10 Initially the E posts the requirements for each participant in the intersection of the relevant industries and the 11 relevant functional areas. Reservation equity or wages or other terms may be provoded to be explicit or available 12 only on meeting the conditions for reservation being met. The respondents bid wit identities and any additional 13 information they wish to provide and granting permission if they choose to allow E to go through a diligence 14 process on PCN. 15 The E then may go through both a Trust evaluation and a Professional evaluation of the candidates. One or more 16 Trust Layers (TL) that the respondent is a member are notified of the member's interest and references are 17 solicited. Such referees are backward chained to second, third and higher level references till a known or trusted 18 party is found as a referee at some nth level trusted by the E. This will then permit a forward chaining of 19 verification of trust relationships in the paths to the respondent from the E. All members connected together by a 20 chain of linkages between pairs of members are part of a connected network. Every unique path along linkages 21 between pairs of members with no linkage traversed twice is a connection thread. 22 A parallel channel would be the utilization of the strength of communication relationships which may be 23 established with the frequency of communication between members or other criterion related to the strengthof 24 relationships between members. Such communications may be backward chained till the E is reached and then 25 then the E may choose to forward chain to verify the subject throught he network. Notably, the communication 26 network may be based on direct communications or communications to a sub network of any of the TL s and the 27 response of other members to that communication. 28 29

Guarantees may also be provided for a fee with specific defined criteria thatare triggers for payment.

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Similary the diligence process for Professional performance may be conducted with the E viewing (potentially for a fee) a communications distribution of the subject in the space of industries and the space of fuctional areas. He may click or other wise select a point or a region of the space to investigate the competence of the subject. Such a selection may give the postings that the subject has made in the local neighborhood of the selection (the E can choose the size of the neighborhood) these postings will be classified in terms of the functional focus and industry focus and the context of each of these in terms of the trajectory of the prior and following postings in the thread in these spaces. It may also give the position on the tree of communications following the initial posting for each of these communications, to establish the relevance (early termination of a tree may be because an answer has been reached or because the branch has become irrelevant).



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- Further more the E can broadcast a request for referees that inhabit the neighborhoods that E has selected to
- 2 provide references on the subject. PCN can provide a network of experts to evaluate the referees remarks or the
- 3 subject (for a fee. The experts may also be paid by PCN or be retained simply by generating a repution for
- 4 themselves) The bidder/subject will normally be informed of the request for references and the referees identities
- 5 and be allowed to provide a perspective on that referee either positive or negative that is available to the E when
- 6 evaluating the referee inputs.
- 7 There can be 2nd 3nd or higher order referees which can be evaluated by E or by experts. It is also possible to have
- 8 first order referees to stay anonymous as long as they provide second order referees that evaluate them to
- 9 disclose their identities. This arguen tmay be carried to multiple levels of anonymous referees.
- 10 There may also be a background process for establishing the reputation of referees in providing accurate inputs
- by correlating the positive references to positive decisions by E or in the case of multiple level referees the next
- higher level referee success in prediction (chained back from the success of the E)
- Any of the referees can also provide guarantees as in the TL related to a specific predefined trigger criterion to
- 14 help the E in a decision.
- 15 The E may then finalize decisions on the bidders and if necessary counter offer and receive responses any
- number of times through PCN and arrive at a decision possible after meeting with the bidders.
- 17 The PCN may get a fee based on economic value of the entity created that may be equity or other claim on the
- entity such as a senior claim as in preferred shares etc or simply contingent claims on performance

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- 20 The next step is to attract finance to the entity. Here again the PCN may have a forum of investors that may be
- Venture Capitalists or Angel investors etc. Upon request by E to the Financier, the Financier may initialize a
- 22 diligence process on PCNs that he is a member of to check each of the participants. The process is analogous to
- 23 the process conducted by E for theother participants.
- PCN can charge a different fee for this service to capital providers.
- 25 A second factor for this stage of the process is that the E can use the information that he has got in the diligence
- 26 process he has conducted to selectively present what he chooses to the financier.

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